

Title (en)

Semiconductor device with two insulators of different dielectric constant and fabrication process thereof

Title (de)

Halbleiterelement mit zwei Isolatoren unterschiedlicher Dielektrizitätskonstante und Verfahren zu seiner Herstellung

Title (fr)

Dispositif semiconducteur avec deux isolants de constante diélectrique différentes et son procédé de fabrication

Publication

**EP 0851471 A3 19990609 (EN)**

Application

**EP 97122105 A 19971215**

Priority

JP 34472596 A 19961225

Abstract (en)

[origin: EP0851471A2] Described in the present invention is a semiconductor device in which a plurality of interconnect lines are disposed, through an insulating layer, on the same layer above a semiconductor substrate having a semiconductor element; a first interlevel insulator is formed selectively in a narrowly-spaced region between adjacent interconnect lines; a second interlevel insulator is formed in a widely-spaced region between said adjacent interconnect lines, and the first interlevel insulator has a smaller dielectric constant than the second interlevel insulator. According to such a constitution, strength and reliability can be heightened and performance can be improved easily even in a miniaturized interconnect structure. <IMAGE>

IPC 1-7

**H01L 21/3105**

IPC 8 full level

**H01L 21/3205** (2006.01); **H01L 21/768** (2006.01); **H01L 23/522** (2006.01)

CPC (source: EP KR US)

**H01L 21/28** (2013.01 - KR); **H01L 21/76801** (2013.01 - EP US); **H01L 21/76802** (2013.01 - US); **H01L 21/76829** (2013.01 - EP US); **H01L 21/76831** (2013.01 - US); **H01L 21/76832** (2013.01 - EP US); **H01L 21/76834** (2013.01 - EP US)

Citation (search report)

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- [YA] EP 0687005 A2 19951213 - TEXAS INSTRUMENTS INC [US]
- [A] EP 0703611 A1 19960327 - TEXAS INSTRUMENTS INC [US]
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Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0851471 A2 19980701**; **EP 0851471 A3 19990609**; **EP 0851471 B1 20040908**; DE 69730580 D1 20041014; DE 69730580 T2 20050915; JP 2910713 B2 19990623; JP H10189716 A 19980721; KR 100283307 B1 20010402; KR 19980064510 A 19981007; TW 360916 B 19990611; US 2001048165 A1 20011206; US 6222269 B1 20010424; US 6294833 B1 20010925; US 6483193 B2 20021119

DOCDB simple family (application)

**EP 97122105 A 19971215**; DE 69730580 T 19971215; JP 34472596 A 19961225; KR 19970072499 A 19971223; TW 86118871 A 19971211; US 48188500 A 20000112; US 89392601 A 20010628; US 99610597 A 19971222